



Inventors: Christoph Reinhard et al. Serial No. 09/905,674 Docket No. PP-01700.002/200130.521

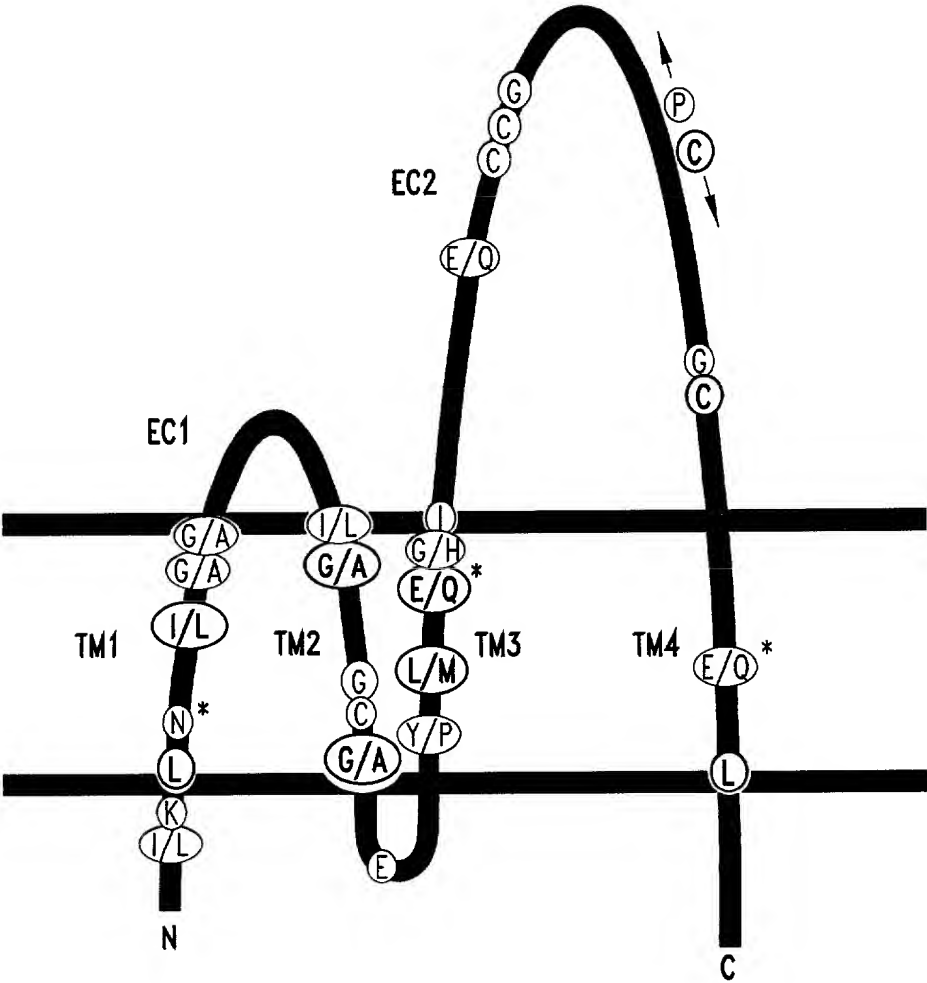


Fig. 1

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1  CTTCTCTGGC CGAGCCGGGC GCGCGGGCCG CTGCCGCCGC GCGCGCGGGA
   GAAGGAGCCG GCTCGGCCCG GCGCGCCGGC GACGGCGGCG GCGCGCGCCT

+1                               ]-----
51 TTCTGCTTCT CAGAAGATGC ACTATTATAG ATACTCTAAC GCCAAAGTCA
   AAGACGAAGA GTCTTCTACG TGATAATATC TATGAGATTG CGGTTTCAGT

+1 -----
101 GCTGCTGGTA CAAGTACCTC CTTTTCAGCT ACAACATCAT CTTCTGGTTG
    CGACGACCAT GTTCATGGAG GAAAAGTCGA TGTGTAGTA GAAGACCAAC
-3                               <-----

+3                               ]-----
+1 -----
151 GCTGGAGTTG TCTTCCTTGG AGTCGGGCTG TGGGCATGGA GCGAAAAGGG
    CGACCTCAAC AGAAGGAACC TCAGCCCGAC ACCCGTACCT CGCTTTTCCC
-3 -----

+3 -----
+1 -----
201 TGTGCTGTCC GACCTCACCA AAGTGACCCG GATGCATGGA ATCGACCCTG
    ACACGACAGG CTGGAGTGGT TTCACTGGGC CTACGTACCT TAGCTGGGAC
-3 -----

+3 -----
+1 -----
251 TGGTGCTGGT CCTGATGGTG GGC GTGGTGA TGTTACCCT GGGGTTCGCC
    ACCACGACCA GGA CTACCAC CCGCACCCT ACAAGTGGGA CCCC AAGCGG
-3 -----

+3 -----
+1 -----
301 GGCTGCGTGG GGGCTCTGCG GGAGAATATC TGCTTGCTCA ACTTTTCTG
    CCGACGCACC CCCGAGACGC CCTCTTATAG ACGAACGAGT TGAAAAAGAC
-3 -----

+3 -----
+1 -----
351 TGGCACCATC GTGCTCATCT TCTTCCTGGA GCTGGCTGTG GCCGTGCTGG
    ACCGTGGTAG CACGAGTAGA AGAAGGACCT CGACCGACAC CGGCACGACC

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Fig. 2A

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+3 -----
+1 -----
401 CCTTCCTGTT CCAGGACTGG GTGAGGGACC GGTTCGGGA GTTCTTCGAG
    GGAAGGACAA GGTCCTGACC CACTCCCTGG CCAAGGCCCT CAAGAAGCTC
-3 -----

+3 -----
+1 -----
                                ClaI
                                ~~~~~
451 AGCAACATCA AGTCCTACCG GGACGATATC GATCTGCAAA ACCTCATCGA
    TCGTTGTAGT TCAGGATGGC CCTGCTATAG CTAGACGTTT TGGAGTAGCT
-3 -----[

+3 ----->
+1 -----
501 CTCCCTTCAG AAAGCTAACC AGTGCTGTGG CGCATATGGC CCTGAAGACT
    GAGGGAAGTC TTTCGATTGG TCACGACACC GCGTATACCG GGA CTCTGA

+1 -----
551 GGGACCTCAA CGTCTACTTC AATTGCAGCG GTGCCAGCTA CAGCCGAGAG
    CCCTGGAGTT GCAGATGAAG TTAACGTCGC CACGGTCGAT GTCGGCTCTC

+1 -----
601 AAGTGCGGGG TCCCCTTCTC CTGCTGCGTG CCAGATCCTG CGCAAAAAGT
    TTCACGCCCC AGGGGAAGAG GACGACGCAC GGTCTAGGAC GCGTTTTTCA

+1 -----
651 TGTGAACACA CAGTGTGGAT ATGATGTCAG GATTCAGCTG AAGAGCAAGT
    ACACTTGTGT GTCACACCTA TACTACAGTC CTAAGTCGAC TTCTCGTTCA

+1 -----
701 GGGATGAGTC CATCTTCACG AAAGGCTGCA TCCAGGCGCT GGAAAGCTGG
    CCCTACTCAG GTAGAAGTGC TTTCCGACGT AGGTCCGCGA CCTTTCGACC

+1 -----
751 CTCCCGCGGA ACATTTACAT TGTGGCTGGC GTCTTCATCG CCATCTCGCT
    GAGGGCGCCT TGTAATGTA ACACCGACCG CAGAAGTAGC GGTAGAGCGA
-1 -----<

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Fig. 2B

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+1 -----
801 GTTGCAGATA TTTGGCATCT TCCTGGCAAG GACGCTGATC TCAGACATCG
    CAACGTCTAT AAACCGTAGA AGGACCGTTC CTGCGACTAG AGTCTGTAGC
-1 -----

+1 -----
851 AGGCAGTGAA GGCCGGCCAT CACTTCTGAG GAGCAGAGTT GAGGGAGCCG
    TCCGTCACCTT CCGGCCGGTA GTGAAGACTC CTCGTCTCAA CTCCCTCGGC
-1 -----

901 AGCTGAGCCA CGCTGGGAGG CCAGAGCCTT TCTCTGCCAT CAGCCCTACG
    TCGACTCGGT GCGACCCTCC GGTCTCGGAA AGAGACGGTA GTCGGGATGC
-1 -----

+1 -----
951 TCCAGAGGGA GAGGAGCCGA CACCCCCAGA GCCAGTGCCC CATCTTAAGC
    AGGTCTCCCT CTCCTCGGCT GTGGGGGTCT CGGTCACGGG GTAGAATTCG
-1 -----[

+1 -----
1001 ATCAGCGTGA CGTGACCTCT CTGTTTCTGC TTGCTGGTGC TGAAGACCAA
    TAGTCGCACT GCACTGGAGA GACAAAGACG AACGACCACG ACTTCTGGTT
-1 -----

+1 -----
1051 GGGTCCCCCT TGTTACCTGC CCAAATTGT GACTGCATCC CTCTGGAGTC
    CCCAGGGGGA ACAATGGACG GGTTTGAACA CTGACGTAGG GAGACCTCAG
-1 -----

+1 -----
1101 TACCCAGAGA CAGAGAATGT GTCTTTATGT GGGAGTGGTG ACTCTGAAAG
    ATGGGTCTCT GTCTCTTACA CAGAAATACA CCCTCACCAC TGAGACTTTC
-1 <-----

+1 -----
PstI
~~~~~
1151 ACAGAGAGGG CTCCTGTGGC TGCCAGGAGG GCTTGACTCA GACCCCTGCG
    TGTCTCTCCC GAGGACACCG ACGGTCCTCC CGAACTGAGT CTGGGGGACG
-1 -----

```

Fig. 2C

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+1 -----
   Pst1
   ~
1201 AGCTCAAGCA TGTCTGCAGG ACACCCTGGT CCCYTYTCCA YTGGCWTCCA
    TCGAGTTCGT ACAGACGTCC TGTGGGACCA GGRARAGGT RACCGWAGGT
-1 -----

+1 ----->
1251 GACATCTGCT TTGGGTCATC CACATCTGTG GGTNGGCCGT GGGTAGAGGG
    CTGTAGACGA AACCCAGTAG GTGTAGACAC CCANCCGGCA CCCATCTCCC
-1 -----

1301 ACCCACAGGC GTGGACAGGG CATCTCTCTC CATCAAGCAA AGCAGCATGG
    TGGGTGTCCG CACCTGTCCC GTAGAGAGAG GTAGTTCGTT TCGTCGTACG
-1 -----[

1351 GGGGCCTTGC CGTAAACGGG AGGCGNGACG TTGGCCC
    CCCCGBAACG GCATTTGCCC TCCGCNCTGC AACCGGG

```

Fig. 2D

1 MHYYRYSNAK VSCWYKLLF SYNIIFWLAG VVFLGVGLWA WSEKGVLSDL
 51 TKVTRMHGID PVVLVLMVGVMFTLGFAGC VGALRENICL LNFFCGTIVL
 101 IFFLELAVAV LAFLFQDWVR DRFREFFESN IKSyrDDIDL QNLIDSLQKA
 151 NQCCGAYGPE DWDLVVYFNC SGASYSREKC GVPFSCCVPD PAQKVNTQC
 201 GYDVRIQLKS KWDESIFTKG CIQALESWLP RNIYIVAGVF IAISLLQIFG
 251 IFLARTLISD IEAVKAGHHF

Fig. 3

NTSP5:P104	CHIR22-1	TGCAGCCTTTCGTGAAGATGGACTC	25 (7-11-7)
NTSP5:P727	CHIR22-2	CCCCATGCTGCTTTGCTTGATGGAG	25 (7-11-7)
NTSP5:P285	CHIR22-3	GCTCAGCTCGGCTCCCTCAACTC	23 (7-9-7)
NTSP5:P456	CHIR22-4	CACAAGTTTGGGCAGGTAACAAGGG	25 (7-11-7)
NTSP5:P395	CHIR22-5	AGAGGTCACGTCACGCTGATGCTTA	25 (7-11-7)
NTSP5:P104	CHIR22-1RC	CTCAGGTAGAAGTGCTTTCCGACGT	25 (7-11-7)
NTSP5:P727	CHIR22-2RC	GAGGTAGTTCGTTTCGTCGTACCCC	25 (7-11-7)
NTSP5:P285	CHIR22-3RC	CTCAACTCCCTCGGCTCGACTCG	23 (7-9-7)
NTSP5:P456	CHIR22-4RC	GGAACAATGGACGGGTTTGAACAC	25 (7-11-7)
NTSP5:P395	CHIR22-5RC	ATTCGTAGTCGCACTACGCTGGAGA	25 (7-11-7)

Fig. 4

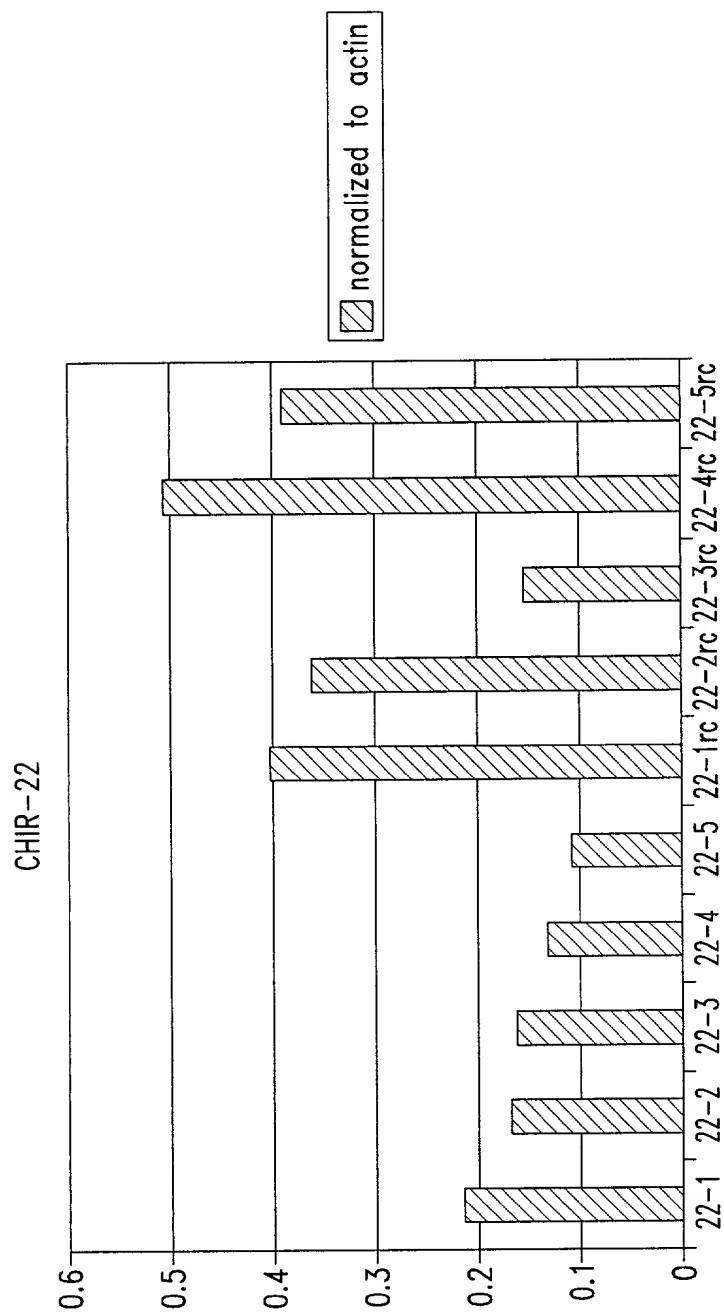


Fig. 5

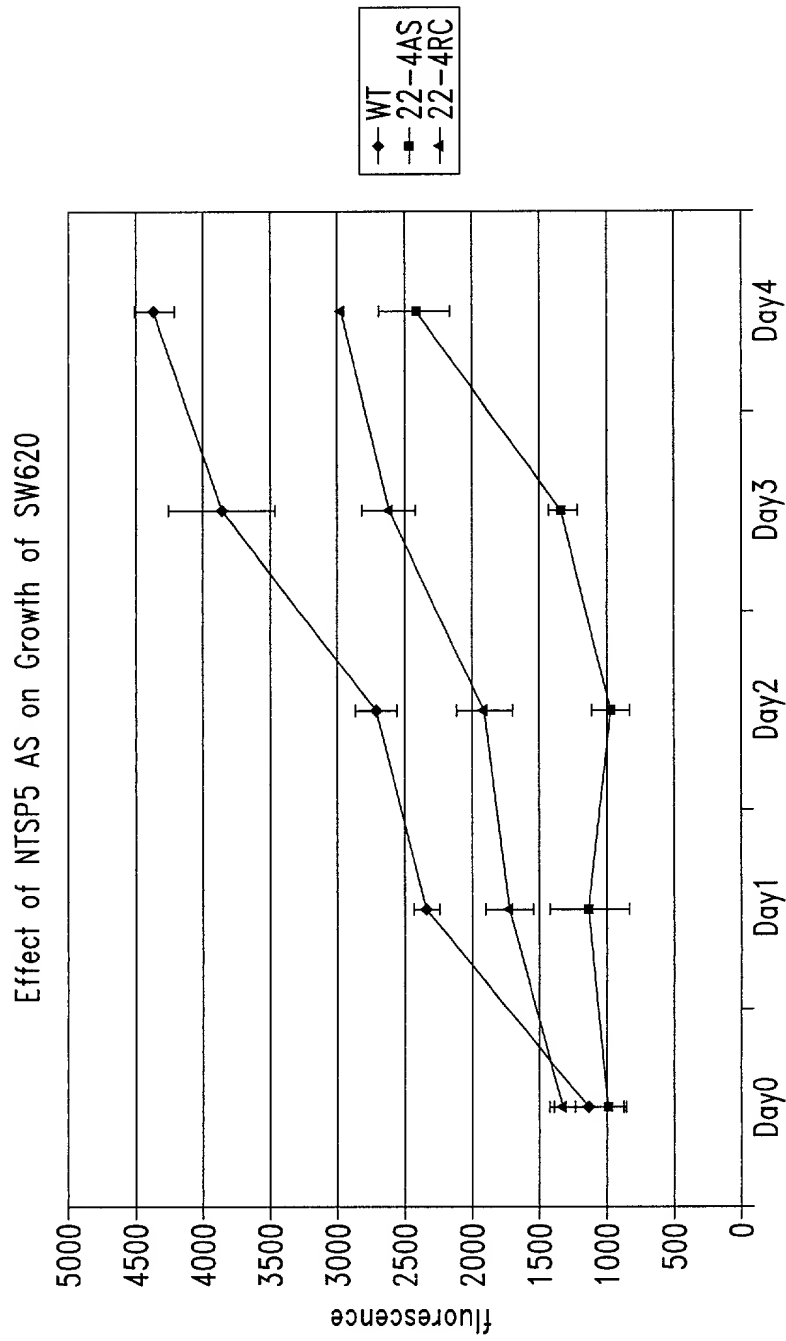


Fig. 6